

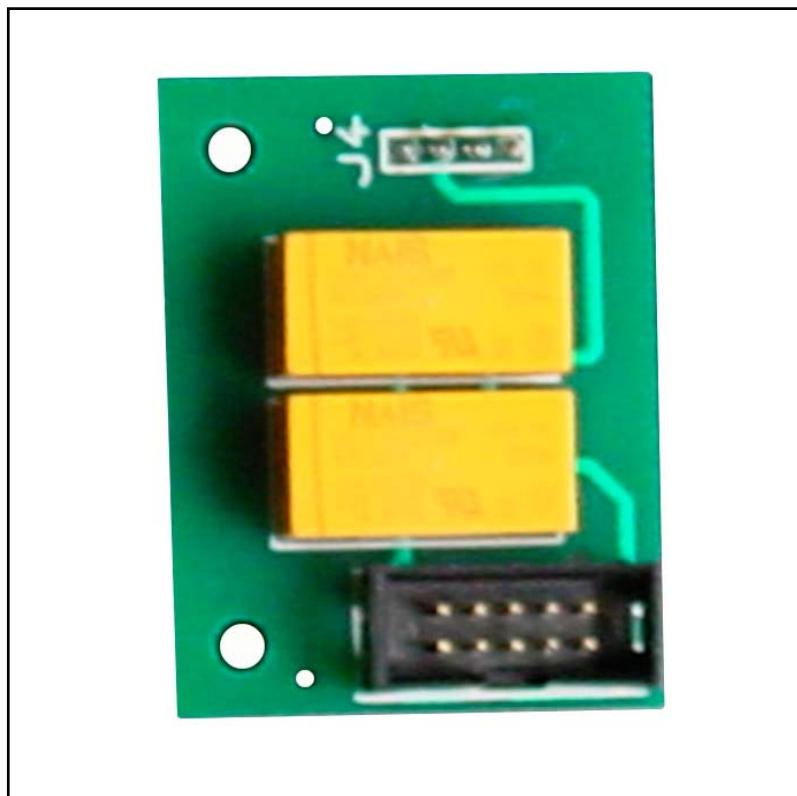


Set Point Card for MidiVac Controller

Model 929-5020

- (I) *MANUALE DI ISTRUZIONI*
- (D) *BEDIENUNGSHANDBUCH*
- (F) *NOTICE DE MODE D'EMPLOI*
- (GB) *INSTRUCTION MANUAL*

Set Point Card for MidiVac Controller





Dear Customer,

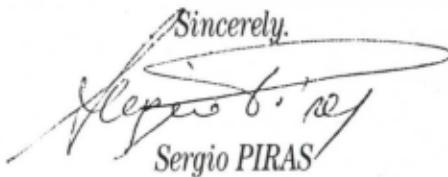
Thank you for purchasing a VARIAN vacuum product. At VARIAN Vacuum Technologies we make every effort to ensure that you will be satisfied with the product and/or service you have purchased.

As part of our Continuous Improvement effort, we ask that you report to us any problem you may have had with the purchase or operation of our product. On the back side you find a Corrective Action Request form that you may fill out in the first part and return to us.

This form is intended to supplement normal lines of communications and to resolve problems that existing systems are not addressing in an adequate or timely manner.

Upon receipt of your Corrective Action Request we will determine the Root Cause of the problem and take the necessary actions to eliminate it. You will be contacted by one of our employees who will review the problem with you and update you, with the second part of the same form, on our actions.

Your business is very important to us. Please, take the time and let us know how we can improve.

Sincerely,

Sergio PIRAS

Vice President and General Manager
VARIAN Vacuum Technologies

Note: Fax or mail the Customer Request for Action (see backside page) to VARIAN Vacuum Technologies (Torino) - Quality Assurance or to your nearest VARIAN representative for onward transmission to the same address.

CUSTOMER REQUEST FOR CORRECTIVE / PREVENTIVE / IMPROVEMENT ACTION

TO: VARIAN VACUUM TECHNOLOGIES TORINO – QUALITY ASSURANCE

FAX N°: XXXX - 011 - 9979350

ADDRESS: VARIAN S.p.A. - Via F.II Varian, 54 - 10040 Leini (Torino) - Italy

E-MAIL: marco.marzio@varianinc.com

NAME: _____	COMPANY: _____	FUNCTION: _____
ADDRESS: _____		
TEL. N°: _____	FAX N°: _____	E-MAIL: _____
PROBLEM / SUGGESTION: _____ _____ _____ _____		
REFERENCE INFORMATION (model n°, serial n°, ordering information, time to failure after installation, etc.): _____ _____ _____ _____		
DATE _____		

CORRECTIVE ACTION PLAN /ACTUATION (by VARIAN VTT)	LOG N° _____
_____ _____ _____ _____	_____ _____ _____ _____

XXXX – Code for dialing Italy from your country (es. 01139 from USA; 00139 from Japan, etc.)



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INFORMAZIONI GENERALI

Questa apparecchiatura è destinata ad uso professionale. L'utilizzatore deve leggere attentamente il presente manuale di istruzioni ed ogni altra informazione addizionale fornita dalla Varian prima dell'utilizzo dell'apparecchiatura. La Varian si ritiene sollevata da eventuali responsabilità dovute all'inosservanza totale o parziale delle istruzioni, ad uso improprio da parte di personale non addestrato, ad interventi non autorizzati o ad uso contrario alle normative nazionali specifiche.

Nei paragrafi seguenti sono riportate tutte le informazioni necessarie a garantire la sicurezza dell'operatore durante l'utilizzo dell'apparecchiatura.

Questo manuale utilizza le seguenti convenzioni:



PERICOLO!

I messaggi di pericolo attirano l'attenzione dell'operatore su una procedura o una pratica specifica che, se non eseguita in modo corretto, potrebbe provocare gravi lesioni personali.



ATTENZIONE!

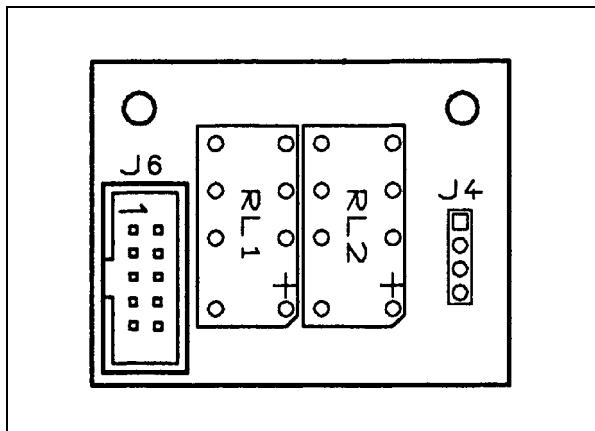
I messaggi di attenzione sono visualizzati prima di procedure che, se non osservate, potrebbero causare danni all'apparecchiatura.

NOTA

Le note contengono informazioni importanti estrapolate dal testo.

DESCRIZIONE DELLA SCHEDA

La scheda opzionale Set Point (modello 929-5020) permette di tenere sotto controllo due valori di soglia di corrente: quando i valori vengono superati, il MidiVac invia un segnale di allarme. Lo stesso segnale di allarme è inviato quando l'alta tensione è spenta.



Scheda Set Point modello 929-5020

La scheda è costituita da due relè che, nel funzionamento normale, sono in stato di eccitazione.

Quando la corrente erogata dal MidiVac supera uno dei due valori di soglia impostati, o quando l'alta tensione viene spenta i relè passano in stato di diseccitazione.

Sul connettore di uscita della scheda sono disponibili i segnali provenienti dai contatti normalmente chiuso e normalmente aperto dei due relè, nonché il comune di ciascun relè collegato, a seconda dello stato del relè, ad uno dei due contatti suddetti.

La seguente tabella elenca le caratteristiche tecniche dei relè utilizzati.

Portata dei contatti	1 A a 30 Vdc 0,3 A a 110 Vdc 0,3 A a 125 Vac
Tensione alla bobina	12 Vdc

Il kit di installazione è costituito dai seguenti elementi:

- la scheda Set Point;
- un cavo piatto con i relativi connettori per il collegamento tra la scheda e il pannello posteriore del MidiVac;
- il presente manuale di istruzioni.

IMMAGAZZINAMENTO

Durante il trasporto e l'immagazzinamento della scheda Set Point non devono essere superate le seguenti condizioni ambientali:

- Temperatura da 20 °C a +70 °C
- Umidità relativa: 0 - 95% (non condensante)

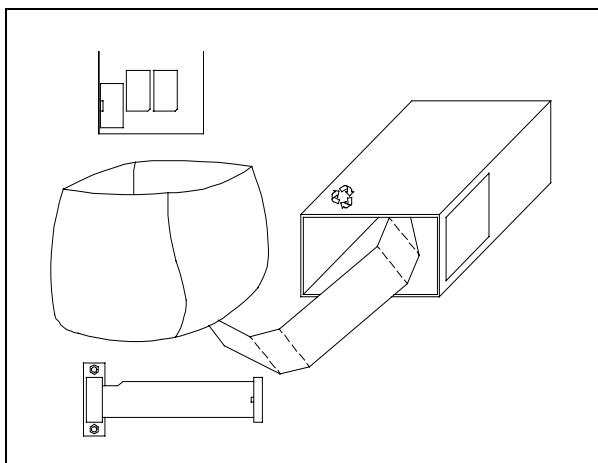
PREPARAZIONE PER L'INSTALLAZIONE

La scheda viene fornita in un imballo protettivo speciale; se si presentano segni di danni, che potrebbero essersi verificati durante il trasporto, contattare l'ufficio vendite locale.

Durante l'operazione di disimballaggio, prestare particolare attenzione a non lasciar cadere la scheda, a non sottoporla ad urti e a non toccare con le mani i componenti elettronici onde evitare che le cariche statiche possano danneggiare la scheda.

Non disperdere l'imballo nell'ambiente. Il materiale è completamente riciclabile e risponde alla direttiva CEE 85/399 per la tutela dell'ambiente.

La figura seguente illustra l'imballo della scheda Set Point.

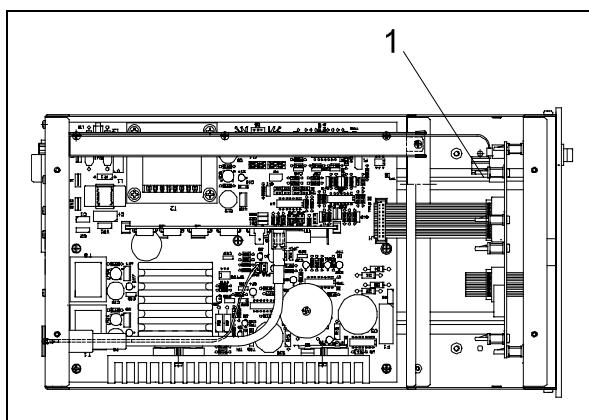


INSTALLAZIONE

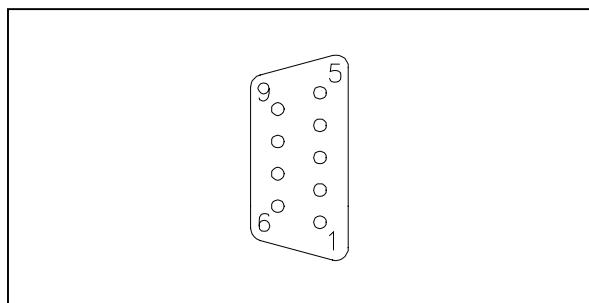
L'installazione della scheda non richiede particolari predisposizioni.

Per installare la scheda all'interno del Controller MidiVac occorre eseguire la seguente procedura:

1. Scollegare il controller dall'alimentazione elettrica.
2. Rimuovere la copertura superiore.
3. Inserire la scheda nell'apposito spazio previsto sulla scheda del pannello frontale del controller (vedere il particolare (1) della figura seguente) facendo attenzione al corretto collegamento tra il connettore J4 della scheda e quello della scheda del controller.
4. Rimuovere la copertura di chiusura dello spazio sul pannello posteriore previsto per l'inserimento del connettore.
5. Collegare il cavo piatto da un lato al connettore J6 della scheda e far passare l'altro capo all'interno del controller lungo l'apposita canalina reggicavi fino a far uscire il connettore a vaschetta da 9 pin dall'apposito spazio del pannello posteriore.
6. Fissare il connettore a vaschetta al pannello posteriore con le apposite viti di fissaggio.
7. Reinserire la copertura superiore del controller.
8. Riconglegare il controller all'alimentazione.



La figura seguente illustra la disposizione dei piedini e dei relativi segnali sul connettore a vaschetta delle scheda Set Point.

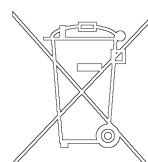


PIN	DESCRIZIONE
1	Non collegato
2	Non collegato
3	Comune dei contatti del relè 2
4	Contatto normalmente chiuso del relè 2
5	Contatto normalmente aperto del relè 2
6	Non collegato
7	Comune dei contatti del relè 1
8	Contatto normalmente chiuso del relè 1
9	Contatto normalmente aperto del relè 1

SMALTIMENTO

Significato del logo "WEEE" presente sulle etichette.

Il simbolo qui sotto riportato è applicato in ottemperanza alla direttiva CE denominata "WEEE". Questo simbolo (**valido solo per i paesi della Comunità Europea**) indica che il prodotto sul quale è applicato, NON deve essere smaltito insieme ai comuni rifiuti domestici o industriali, ma deve essere avviato ad un sistema di raccolta differenziata. Si invita pertanto l'utente finale a contattare il fornitore del dispositivo, sia esso la casa madre o un rivenditore, per avviare il processo di raccolta e smaltimento, dopo opportuna verifica dei termini e condizioni contrattuali di vendita.



ALLGEMEINES

Dieser Apparat ist für Fachbetriebe bestimmt. Vor Gebrauch sollte der Benutzer dieses Handbuch sowie alle weiteren mitgelieferten Zusatzdokumentationen genau lesen. Bei Nichtbeachtung - auch teilweise - der enthaltenen Hinweise, unsachgemäßem Gebrauch durch ungeschultes Personal, nicht autorisierten Eingriffen und Mißachtung der einheimischen, hier zur Geltung kommenden Bestimmungen übernimmt die Firma Varian keinerlei Haftung.

In den folgenden Abschnitten sind alle erforderlichen Informationen für die Sicherheit des Bedieners bei der Anwendung des Geräts aufgeführt.

In dieser Gebrauchsanleitung werden Sicherheits-hinweise folgendermaßen hervorgehoben:



GEFAHR!

Die Gefahrenhinweise lenken die Aufmerksamkeit des Bedieners auf bestimmte Vorgänge oder Praktiken, die bei unkorrekter Ausführung schwere Verletzungen hervorrufen können.



ACHTUNG!

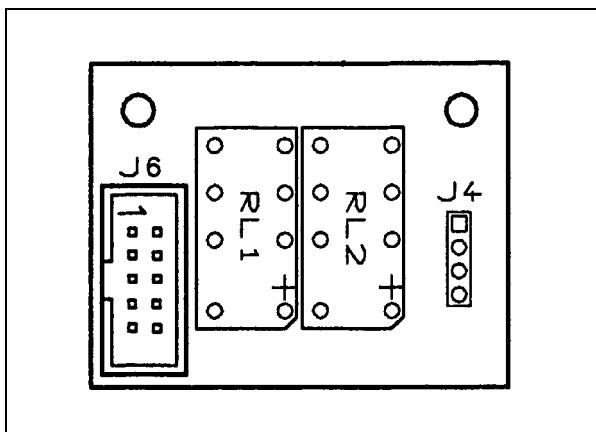
Die Warnhinweise vor bestimmten Prozeduren machen den Bediener darauf aufmerksam, daß bei Nichteinhaltung Schäden an der Anlage entstehen können.

ANMERKUNG

Die Anmerkungen enthalten wichtige Informationen, die im Text hervorgehoben werden.

BESCHREIBUNG DER KARTE

Die Zusatzkarte 'Set Point' (Best.-Nr. 929-5020) ermöglicht eine Kontrolle der beiden Stromgrenzwerte. Bei Überschreitung dieser Grenzwerte gibt der MidiVac-Controller ein entsprechendes Warnsignal ab. Das gleiche Warnsignal wird ebenfalls bei Abschaltung der Hochspannung abgegeben.



Karte "Set Point", Best.-Nr. 929-5020

Die Karte besteht aus zwei Relais, die während des normalen Betriebs erregt sind.

Diese Relais werden aberregt, wenn der vom MidiVac-Controller abgegebene Strom einen der beiden voreingestellten Grenzwerte überschreitet oder wenn die Hochspannung abgeschaltet wurde.

Auf den Steckverbindern des Ausgangs der Karte sind die von den Schließer- und Öffnerkontakten der beiden Relais ausgehenden Signale präsent; des Weiteren ist ein allgemeines Signal präsent, das von beiden angeschlossenen Relais ausgeht und dem jeweiligen Zustand des Relais zu einem der vorstehend erwähnten Kontakte entspricht.

In der nachstehenden Tabelle werden die technischen Daten der verwendeten Relais aufgeführt.

Stromfestigkeit der Kontakte	1 A bei 30 Vdc 0,3 A bei 110 Vdc 0,3 A bei 125 Vac
Spannung an der Spule	12 Vdc

Zur Installation der Karte wird folgender Bausatz geliefert:

- Set-Point-Karte;
- Flachkabel und entsprechende Steckverbinder zum Anschluß der Karten an die hintere Schalttafel des MidiVac-Controllers;
- die vorliegende Bedienungsanleitung.

LAGERUNG

Beim Transport und bei der Lagerung der Set-Point-Karte müssen folgende klimatischen Verhältnisse eingehalten werden:

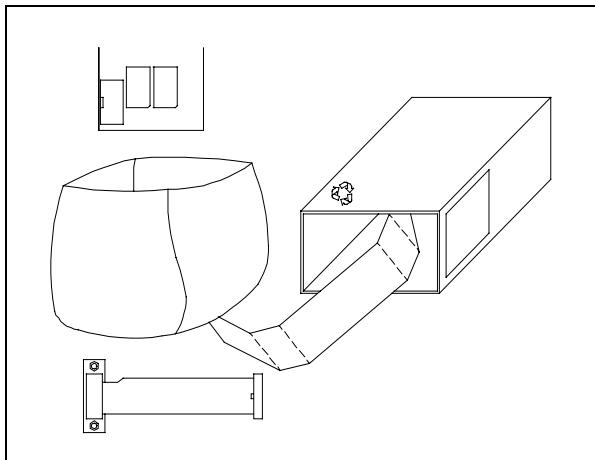
- Temperatur: von -20 °C bis +70 °C
- Relative Luftfeuchtigkeit: 0-95 % (nicht kondensierend)

VOR DER INSTALLATION

Die Karte wird in einer speziellen Schutzverpackung geliefert. Eventuelle Transportschäden müssen der zuständigen örtlichen Verkaufsstelle gemeldet werden.

Beim Auspacken vorsichtig vorgehen, damit die Karte nicht fällt oder Stößen ausgesetzt wird. Um statische Entladungen und eine Beschädigung der Karte zu vermeiden, dürfen die elektronischen Komponenten nicht mit den Händen angefaßt werden. Das Verpackungsmaterial muß korrekt entsorgt werden. Es ist vollständig recyclebar und entspricht der EG-Richtlinie 85/399 für Umweltschutz.

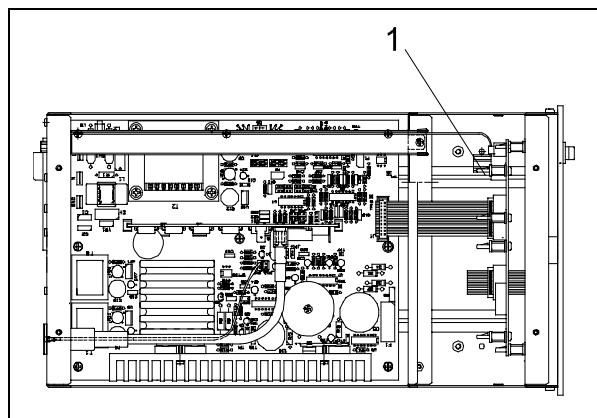
In der nachstehenden Abbildung wird die Verpackung der Set-Point-Karte gezeigt.



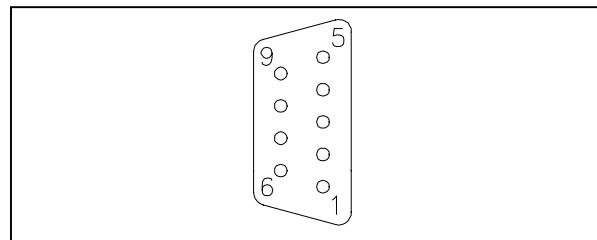
INSTALLATION

Zum Einbau der Karte sind keine besonderen Vorbereitungen erforderlich. Gehen Sie zum Einbau der Karte in den MidiVac-Controller wie folgt vor:

1. Unterbrechen Sie die Netzversorgung des MidiVac-Controllers.
2. Nehmen Sie das obere Gehäuse ab.
3. Stecken Sie die Karte in die Steckverbindung der Karte auf der vorderen Schalttafel des Controllers (siehe (1) in nachstehender Abb.). Achten Sie dabei auf die vorschriftsmäßige Verbindung des Steckverbinder J4 der seriellen Karte mit der Karte des Controllers.
4. Entfernen Sie die auf der hinteren Schalttafel befindliche Verschlußabdeckung zum Einsatz des Steckverbinder.
5. Schließen Sie das Flachkabel auf einer Seite an den Steckverbinder J6 der Schnittstellenkarte an, und führen Sie das andere Kabelende soweit durch den Controller, bis daß der 9-Pin-Steckverbinder aus dem Steckplatz aus der Rückseite der Schalttafel herausschaut.
6. Befestigen Sie den Steckverbinder mittels den entsprechenden Schrauben an der Rückseite der Schalttafel.
7. Setzen Sie die obere Abdeckung des Controllers wieder auf.
8. Schließen Sie den Controller an das Netz an.



In der nachstehenden Abbildung wird die Auslegung der Stifte und der entsprechenden Signale der Steckbuchse der Set-Point-Karte gezeigt.



PIN	FUNKTION
1	nicht belegt
2	nicht belegt
3	allgemeiner Kontakt zum Anschluß der Kontakte des Relais 2
4	Öffnerkontakt des Relais 2
5	Schließerkontakt des Relais 2
6	nicht belegt
7	allgemeiner Kontakt zum Anschluß des Relais 1
8	Öffnerkontakt des Relais 1
9	Schließerkontakt des Relais 1

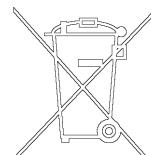
ENTSORGUNG

Bedeutung des "WEEE" Logos auf den Etiketten.

Das folgende Symbol ist in Übereinstimmung mit der EU-Richtlinie WEEE (Waste Electrical and Electronic Equipment) angebracht.

Dieses Symbol (**nur in den EU-Ländern gültig**) zeigt an, dass das betreffende Produkt nicht zusammen mit Haushaltsmüll entsorgt werden darf sondern einem speziellen Sammelsystem zugeführt werden muss.

Der Endabnehmer sollte daher den Lieferanten des Geräts - d.h. die Muttergesellschaft oder den Wiederverkäufer - kontaktieren, um den Entsorgungsprozess zu starten, nachdem er die Verkaufsbedingungen geprüft hat.



INDICATIONS GÉNÉRALES

Cet appareillage a été conçu en vue d'une utilisation professionnelle. Il est conseillé à l'utilisateur de lire attentivement cette notice d'instructions ainsi que toute autre indication supplémentaire fournie par Varian, avant l'utilisation de l'appareillage. Varian décline toute responsabilité en cas d'inobservation totale ou partielle des instructions données, d'utilisation incorrecte de la part d'un personnel non formé, d'opérations non autorisées ou d'un emploi contraire aux réglementations nationales spécifiques.

Les paragraphes suivants donnent toutes les indications nécessaires à garantir la sécurité de l'opérateur pendant l'utilisation de l'appareillage.

Cette notice utilise les signes conventionnels suivants:



DANGER!

Les messages de danger attirent l'attention de l'opérateur sur une procédure ou une manœuvre spéciale qui, si elle n'est pas effectuée correctement, risque de provoquer de graves lésions.



ATTENTION!

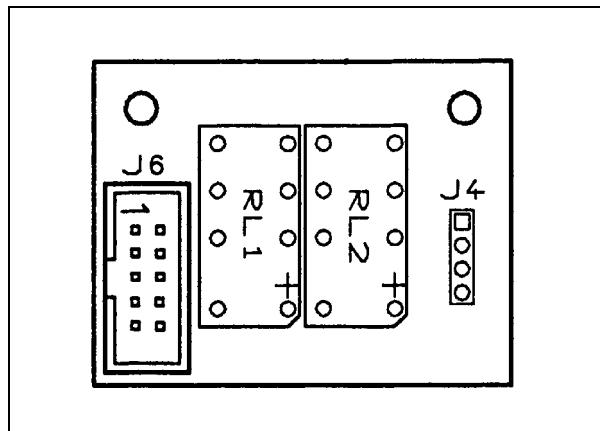
Les messages d'attention apparaissent avant certaines procédures dont le non respect pourrait endommager sérieusement l'appareillage.

NOTE

Les notes contiennent des renseignements importants, extrapolés du texte.

DESCRIPTION DE LA CARTE

La carte en option Set Point (modèle 929-5020) permet le contrôle constant des deux valeurs de seuil de courant: lorsque ces valeurs sont franchies, le MidiVac émet un signal d'alarme. Le même signal d'alarme est émis lorsque la haute tension est éteinte.



Carte Set Point modèle 929-5020

La carte est constituée de deux relais qui, en fonctionnement normal sont en état d'excitation.

Lorsque le courant fourni par le MidiVac dépasse une des deux valeurs de seuil programmées, ou lorsque la haute tension est éteinte, les relais passent en état de désexcitation.

Sur le connecteur de sortie des cartes les signaux provenant des contacts normalement fermés et normalement ouverts des deux relais sont disponibles ainsi que le commun de chaque relais branché en fonction de l'état du relais à un des deux contacts.

Le tableau suivant fournit les caractéristiques techniques des relais utilisés.

Intensité aux contacts	1 A à 30 Vdc 0,3 A à 110 Vdc 0,3 A à 125 Vac
Tension à la bobine	12 Vdc

Le kit d'installation est constitué des éléments suivants:

- la carte Set Point;
- un câble plat dotés des connecteurs pour la liaison entre la carte et le panneau arrière du MidiVac;
- le présent manuel d'instructions.

EMMAGASINAGE

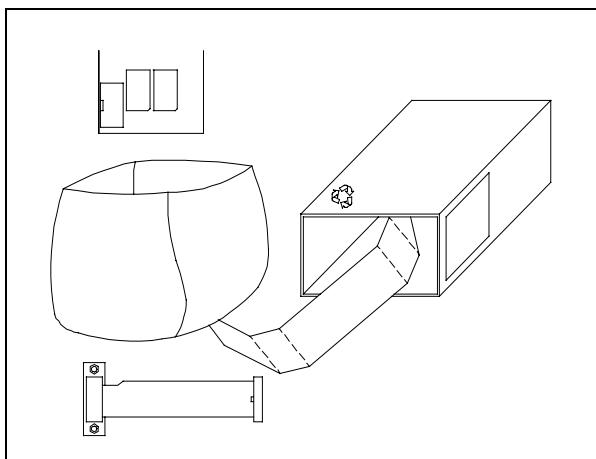
Pendant le transport et l'emmagasinage de la carte Set Point, veiller à respecter les conditions environnementales suivantes:

- Température de 20 °C à +70 °C
- Humidité relative: 0 - 95% (non condensante)

PRÉPARATION POUR L'INSTALLATION

La carte d'interface est livrée dans un emballage de protection spécial; si l'on constate des marques de dommages pouvant s'être produits pendant le transport, contacter aussitôt le bureau de vente local.

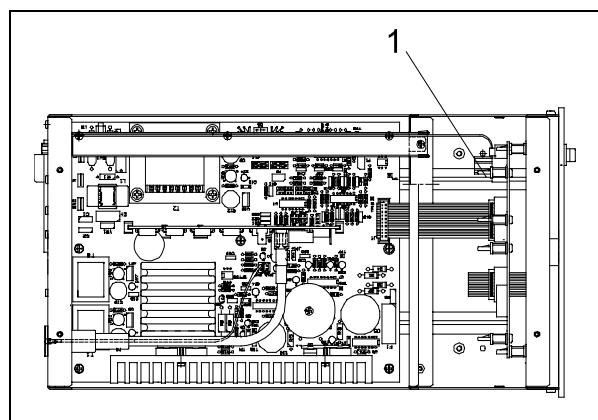
Pendant l'opération d'ouverture de l'emballage, veiller tout particulièrement à ne pas laisser tomber la carte, à ne lui faire subir aucun choc et à ne pas poser les doigts sur les composants électroniques afin d'éviter que les charges statiques puissent endommager la carte. Ne pas jeter l'emballage dans la nature. Le matériel est entièrement recyclable et il est conforme aux directives CEE 83/399 en matière de protection de l'environnement. La figure suivante illustre l'emballage de la carte Set Point.



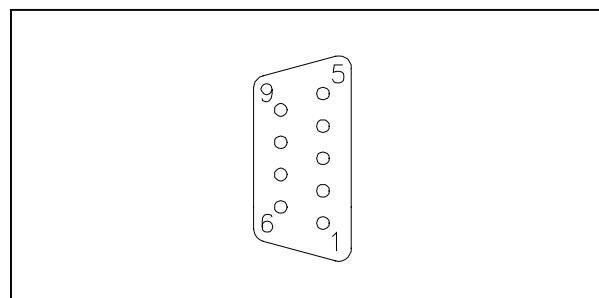
INSTALLATION

L'installation de la carte ne requiert aucune préparation particulière. Pour installer la carte à l'intérieur du Contrôleur MidiVac, suivre la procédure ci-dessous:

1. Débrancher le contrôleur.
2. Retirer le boîtier supérieur.
3. Introduire la carte dans le logement prévu sur la carte du panneau frontal du contrôleur. (Voir la pièce (1) sur la figure ci-dessous en veillant à ce que le branchement entre le connecteur J4 de la carte série et celui de la carte du contrôleur soit correct.)
4. Sur le panneau arrière, retirer la languette obstruant le passage prévu pour l'introduction du connecteur.
5. Brancher une extrémité du câble plat au connecteur J6 de la carte d'interface et faire passer l'autre extrémité à l'intérieur du contrôleur, le long du chemin de câble jusqu'à faire sortir la prise à 9 contacts par le logement prévu sur le panneau arrière.
6. Fixer la prise au panneau arrière à l'aide des vis de fixation fournies.
7. Replacer le boîtier supérieur du contrôleur.
8. Rebrancher le contrôleur à l'alimentation électrique.



La figure suivante illustre la disposition des pieds et des signaux sur la prise de la carte Set Point.



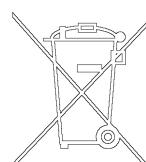
PIN	DESCRIPTION
1	Non branché
2	Non branché
3	Commun des contacts du relais 2
4	Contact normalement fermé du relais 2
5	Contact normalement ouvert du relais 2
6	Non branché
7	Commun des contacts du relais 1
8	Contact normalement fermé du relais 1
9	Contact normalement ouvert du relais 2

MISE AU REBUT

Signification du logo "WEEE" figurant sur les étiquettes.

Le symbole ci-dessous est appliqué conformément à la directive CE nommée "WEEE".

Ce symbole (**uniquement valide pour les pays de la Communauté européenne**) indique que le produit sur lequel il est appliqué NE doit PAS être mis au rebut avec les ordures ménagères ou les déchets industriels ordinaires, mais passer par un système de collecte sélective. Après avoir vérifié les termes et conditions du contrat de vente, l'utilisateur final est donc prié de contacter le fournisseur du dispositif, maison mère ou revendeur, pour mettre en œuvre le processus de collecte et mise au rebut.



GENERAL INFORMATION

This equipment is destined for use by professionals. The user should read this instruction manual and any other additional information supplied by Varian before operating the equipment. Varian will not be held responsible for any events occurring due to non-compliance, even partial, with these instructions, improper use by untrained persons, non-authorised interference with the equipment or any action contrary to that provided for by specific national standards.

The following paragraphs contain all the information necessary to guarantee the safety of the operator when using the equipment. Detailed information about the installed equipment are available into the supplied relevant technical manuals.

This manual uses the following standard protocol:



WARNING!

The warning messages are for attracting the attention of the operator to a particular procedure or practice which, if not followed correctly, could lead to serious injury.



CAUTION!

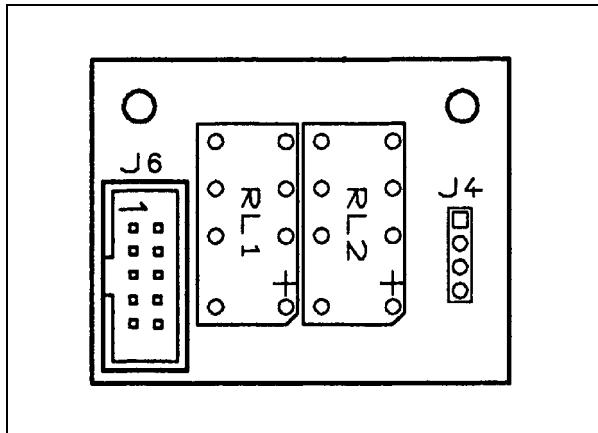
The caution messages are displayed before procedures which, if not followed, could cause damage to the equipment.

NOTE

The notes contain important information taken from the text.

CARD DESCRIPTION

The Set Point optional card (model 929-5020) allows to control two threshold current values: when the threshold values are exceeded, the MidiVac sends an alarm signal. The same alarm signal is sent when the high voltage is switched off.



Set Point Card Model 929-5020

The board includes two relays which, during normal operation, are excited.

When the MidiVac current exceeds one of the two threshold values, or when the high voltage is switched off, the relays are de-excited.

The output card connector holds the signals from the normally open and the normally closed contacts, and the common of each relay connected, according to the relay status, to one of the above mentioned contacts.

The following table details the technical characteristics of the used relays.

Contacts current carrying capacity	1 A to 30 Vdc 0.3 A to 110 Vdc 0.3 A to 125 Vac
Coil voltage	12 Vdc

The furnished installation kit comprises the following elements:

- the Set Point card;
- a flat cable with relevant connectors to connect the board to the MidiVac rear panel;
- this instruction manual.

STORAGE

When transporting and storing the Set Point card the following environmental requirements should be satisfied:

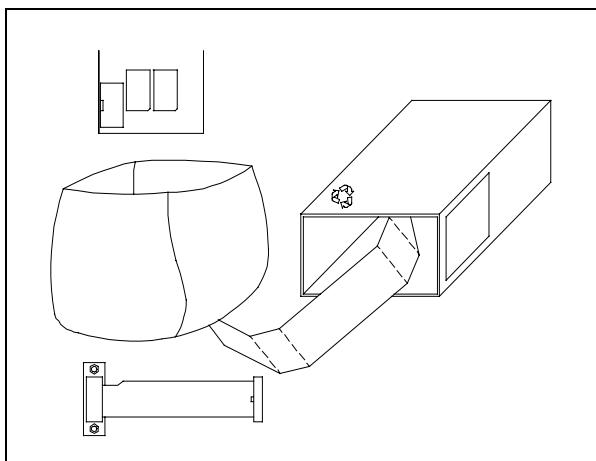
- Temperature: from -20 °C to +70 °C
- Relative humidity: 0 to 95% (without condensing)

PREPARATION FOR INSTALLATION

The card is supplied in a special protective packing. If this shows signs of damage which may have occurred during transport, contact your local sales office.

When unpacking the board, be sure not to drop it, avoid any kind of sudden impact or shock vibration to it and avoid any hand contact with the electronic circuitry: the electrostatic charges may damage the board. Do not dispose of the packing materials in an unauthorised manner. The material is 100% recyclable and complies with EEC Directive 85/399.

The following figure shows the Set Point card packaging.

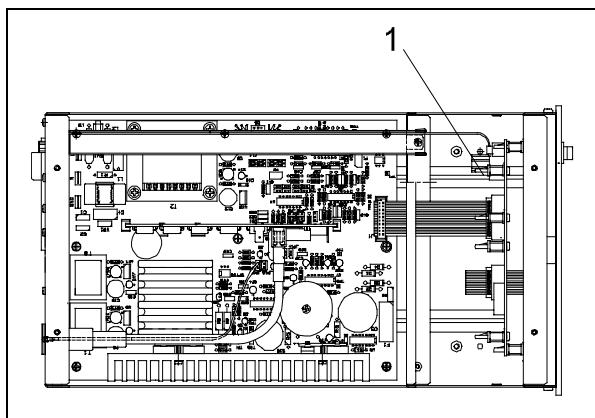


INSTALLATION

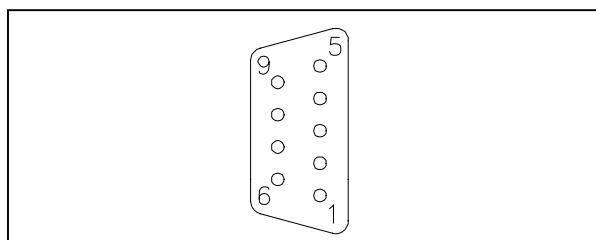
The card installation does not require specific pre-settings.

The following procedure must be executed to install the card inside the MidiVac Controller:

1. Disconnect the controller from the mains.
2. Remove the upper cover.
3. Insert the card into the suitable space of the controller front panel board (see item (1) of the following figure) taking care of the correct connection between the J4 card connector and the corresponding connector of the controller board.
4. Remove the closing cover of the set point connector space of the controller rear panel.
5. Connect one side of the flat cable to J6 connector of the interface board and get the other side through the controller into the suitable cable holder until the 9-pin D-type connector go out from the suitable space of the rear panel.
6. Fix the connector to the rear panel by means of the fixing screws.
7. Reassemble the controller upper cover.
8. Reconnect the controller to the mains.



The following figures show the pin layout and relevant signals of the Set Point card D-type connector.



PIN	DESCRIPTION
1	Not connected
2	Not connected
3	Relay 2 contact common
4	Relay 2 normally closed contact
5	Relay 2 normally open contact
6	Not connected
7	Relay 1 contact common
8	Relay 1 normally closed contact
9	Relay 1 normally open contact

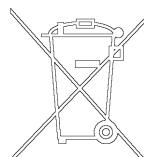
DISPOSAL

Meaning of the "WEEE" logo found in labels.

The following symbol is applied in accordance with the EC WEEE (Waste Electrical and Electronic Equipment) Directive.

This symbol (**valid only in countries of the European Community**) indicates that the product it applies to must NOT be disposed of together with ordinary domestic or industrial waste but must be sent to a differentiated waste collection system.

The end user is therefore invited to contact the supplier of the device, whether the Parent Company or a retailer, to initiate the collection and disposal process after checking the contractual terms and conditions of sale.





Request for Return



1. A Return Authorization Number (RA#) **WILL NOT** be issued until this Request for Return is completely filled out, signed and returned to Varian Customer Service.
2. Return shipments shall be made in compliance with local and international **Shipping Regulations** (IATA, DOT, UN).
3. The customer is expected to take the following actions to ensure the **Safety** of workers at Varian: (a) Drain any oils or other liquids, (b) Purge or flush all gasses, (c) Wipe off any excess residues in or on the equipment, (d) Package the equipment to prevent shipping damage, (for Advance Exchanges please use packing material from replacement unit).
4. Make sure the shipping documents clearly show the RA# and then return the package to the Varian location nearest you.

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Asia and ROW

Varian Vacuum Technologies
Local Office

CUSTOMER INFORMATION

Company name:			
Contact person: Name:	Tel:		
Fax:	E-Mail:		
Ship Method:	Shipping Collect #:	P.O.#:
<u>Europe only:</u> VAT reg. Number:	<u>USA only:</u> <input type="checkbox"/> Taxable <input type="checkbox"/> Non-taxable		
Customer Ship To:	Customer Bill To:		
.....

PRODUCT IDENTIFICATION

Product Description	Varian P/N	Varian S/N	Purchase Reference

TYPE OF RETURN (check appropriate box)

<input type="checkbox"/> Paid Exchange	<input type="checkbox"/> Paid Repair	<input type="checkbox"/> Warranty Exchange	<input type="checkbox"/> Warranty Repair	<input type="checkbox"/> Loaner Return
<input type="checkbox"/> Credit	<input type="checkbox"/> Shipping Error	<input type="checkbox"/> Evaluation Return	<input type="checkbox"/> Calibration	<input type="checkbox"/> Other

HEALTH and SAFETY CERTIFICATION

Varian Vacuum Technologies **CAN NOT ACCEPT** any equipment which contains **BIOLOGICAL HAZARDS** or **RADIOACTIVITY**. Call Varian Customer Service to discuss alternatives if this requirement presents a problem.

The equipment listed above (check one):

HAS NOT been exposed to any toxic or hazardous materials

OR

HAS been exposed to any toxic or hazardous materials. In case of this selection, check boxes for any materials that equipment was exposed to, check all categories that apply:

Toxic Corrosive Reactive Flammable Explosive Biological Radioactive

List all toxic or hazardous materials. Include product name, chemical name and chemical symbol or formula.

.....

Print Name: Customer Authorized Signature:

Print Title: Date:/...../.....

NOTE: If a product is received at Varian which is contaminated with a toxic or hazardous material that was not disclosed, **the customer will be held responsible** for all costs incurred to ensure the safe handling of the product, and **is liable** for any harm or injury to Varian employees as well as to any third party occurring as a result of exposure to toxic or hazardous materials present in the product.

Do not write below this line

Notification (RA)#: Customer ID#: Equipment #:



Request for Return



FAILURE REPORT

TURBO PUMPS and TURBOCONTROLLERS

<input type="checkbox"/> Does not start	<input type="checkbox"/> Noise	POSITION	PARAMETERS
<input type="checkbox"/> Does not spin freely	<input type="checkbox"/> Vibrations	<input type="checkbox"/> Vertical	Power: Rotational Speed:
<input type="checkbox"/> Does not reach full speed	<input type="checkbox"/> Leak	<input type="checkbox"/> Horizontal	Current: Inlet Pressure:
<input type="checkbox"/> Mechanical Contact	<input type="checkbox"/> Overtemperature	<input type="checkbox"/> Upside-down	Temp 1: Foreline Pressure:
<input type="checkbox"/> Cooling defective		<input type="checkbox"/> Other:	Temp 2: Purge flow:
.....			
OPERATION TIME:			

TURBOCONTROLLER ERROR MESSAGE:

ION PUMPS/CONTROLLERS

<input type="checkbox"/> Bad feedthrough	<input type="checkbox"/> Poor vacuum
<input type="checkbox"/> Vacuum leak	<input type="checkbox"/> High voltage problem
<input type="checkbox"/> Error code on display	<input type="checkbox"/> Other
Customer application:	

VALVES/COMPONENTS

<input type="checkbox"/> Main seal leak	<input type="checkbox"/> Bellows leak
<input type="checkbox"/> Solenoid failure	<input type="checkbox"/> Damaged flange
<input type="checkbox"/> Damaged sealing area	<input type="checkbox"/> Other
Customer application:	

LEAK DETECTORS

<input type="checkbox"/> Cannot calibrate	<input type="checkbox"/> No zero/high background
<input type="checkbox"/> Vacuum system unstable	<input type="checkbox"/> Cannot reach test mode
<input type="checkbox"/> Failed to start	<input type="checkbox"/> Other
Customer application:	

INSTRUMENTS

<input type="checkbox"/> Gauge tube not working	<input type="checkbox"/> Display problem
<input type="checkbox"/> Communication failure	<input type="checkbox"/> Degas not working
<input type="checkbox"/> Error code on display	<input type="checkbox"/> Other
Customer application:	

PRIMARY PUMPS

<input type="checkbox"/> Pump doesn't start	<input type="checkbox"/> Noisy pump (describe)
<input type="checkbox"/> Doesn't reach vacuum	<input type="checkbox"/> Over temperature
<input type="checkbox"/> Pump seized	<input type="checkbox"/> Other
Customer application:	

DIFFUSION PUMPS

<input type="checkbox"/> Heater failure	<input type="checkbox"/> Electrical problem
<input type="checkbox"/> Doesn't reach vacuum	<input type="checkbox"/> Cooling coil damage
<input type="checkbox"/> Vacuum leak	<input type="checkbox"/> Other
Customer application:	

FAILURE DESCRIPTION

(Please describe in detail the nature of the malfunction to assist us in performing failure analysis):

NOTA: Su richiesta questo documento è disponibile anche in Tedesco, Italiano e Francese.

REMARQUE : Sur demande ce document est également disponible en allemand, italien et français.

HINWEIS: Auf Anfrage ist diese Unterlage auch auf Deutsch, Italienisch und Französisch erhältlich.

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